FIG. 1
Prior Art

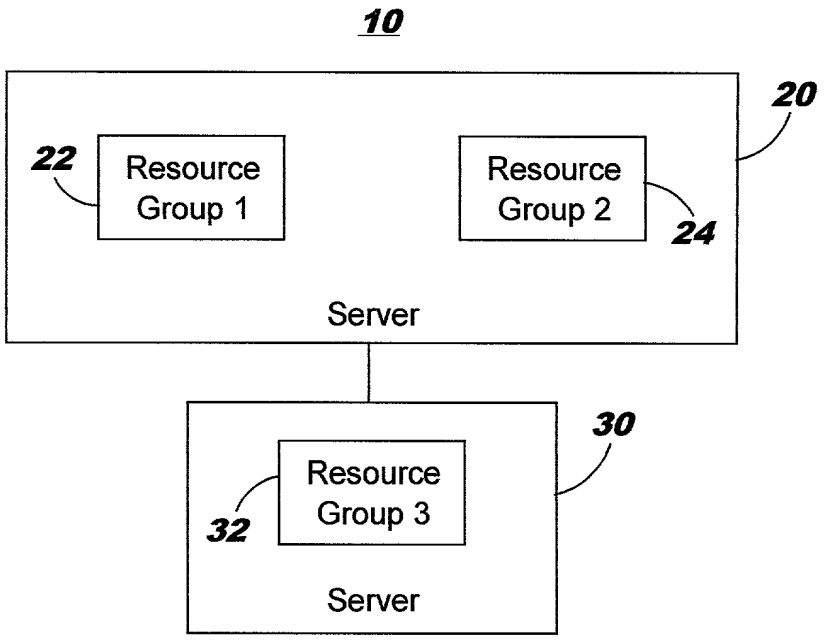


FIG. 3

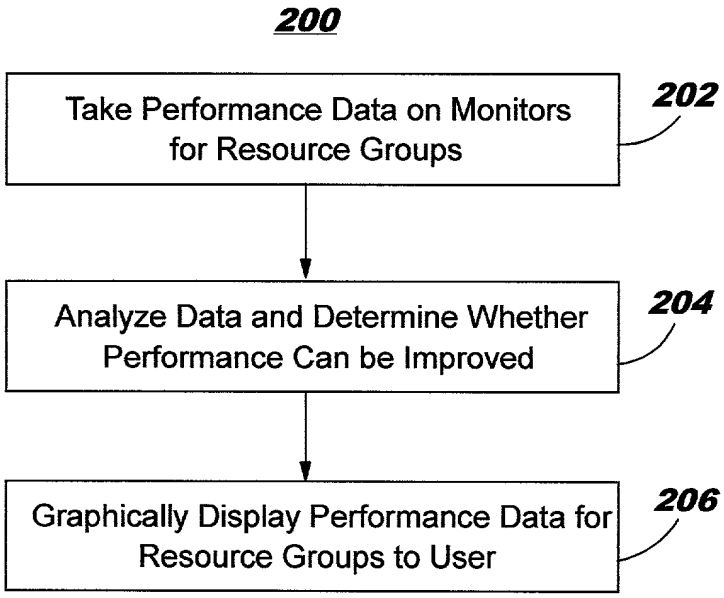


FIG. 2

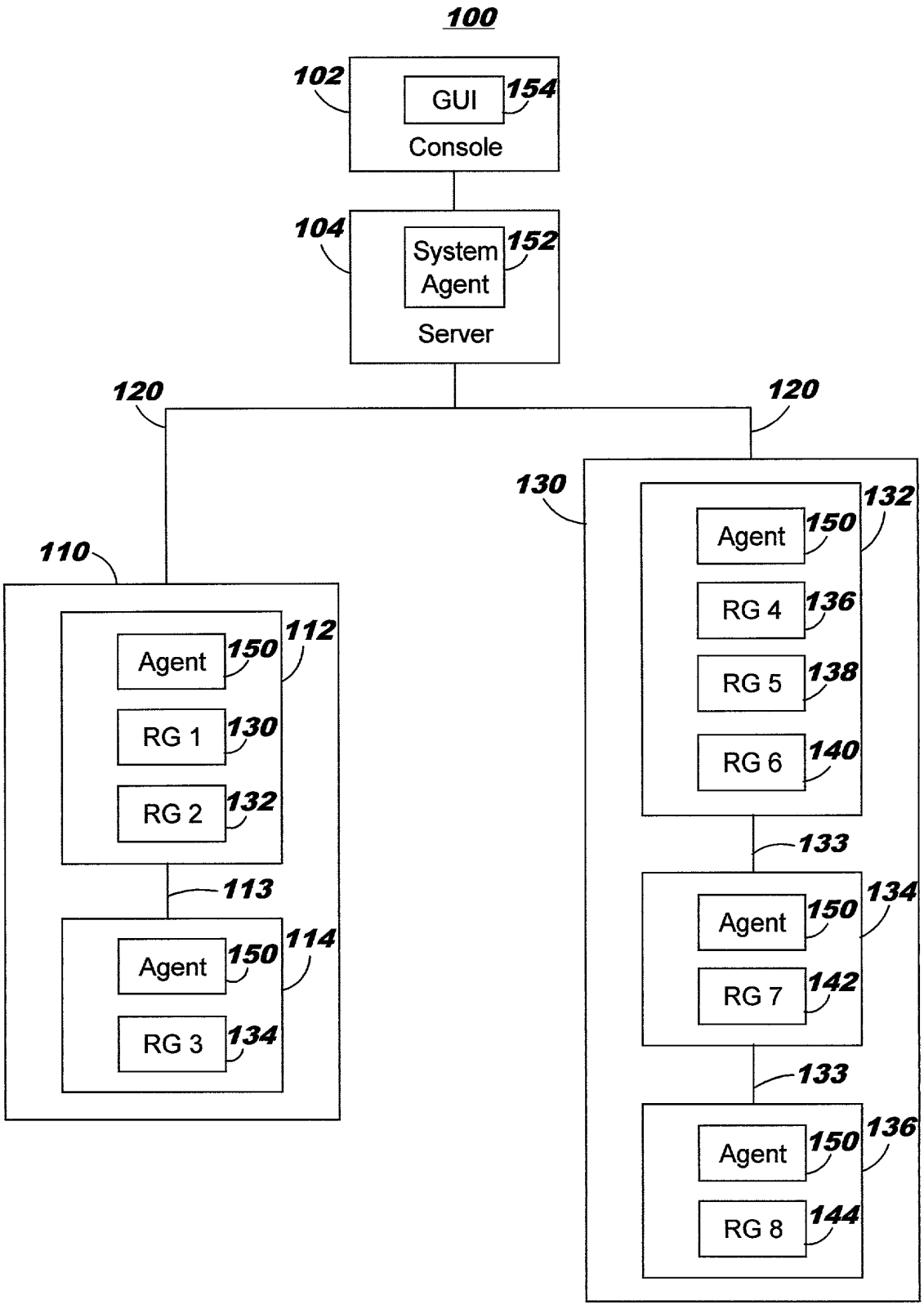
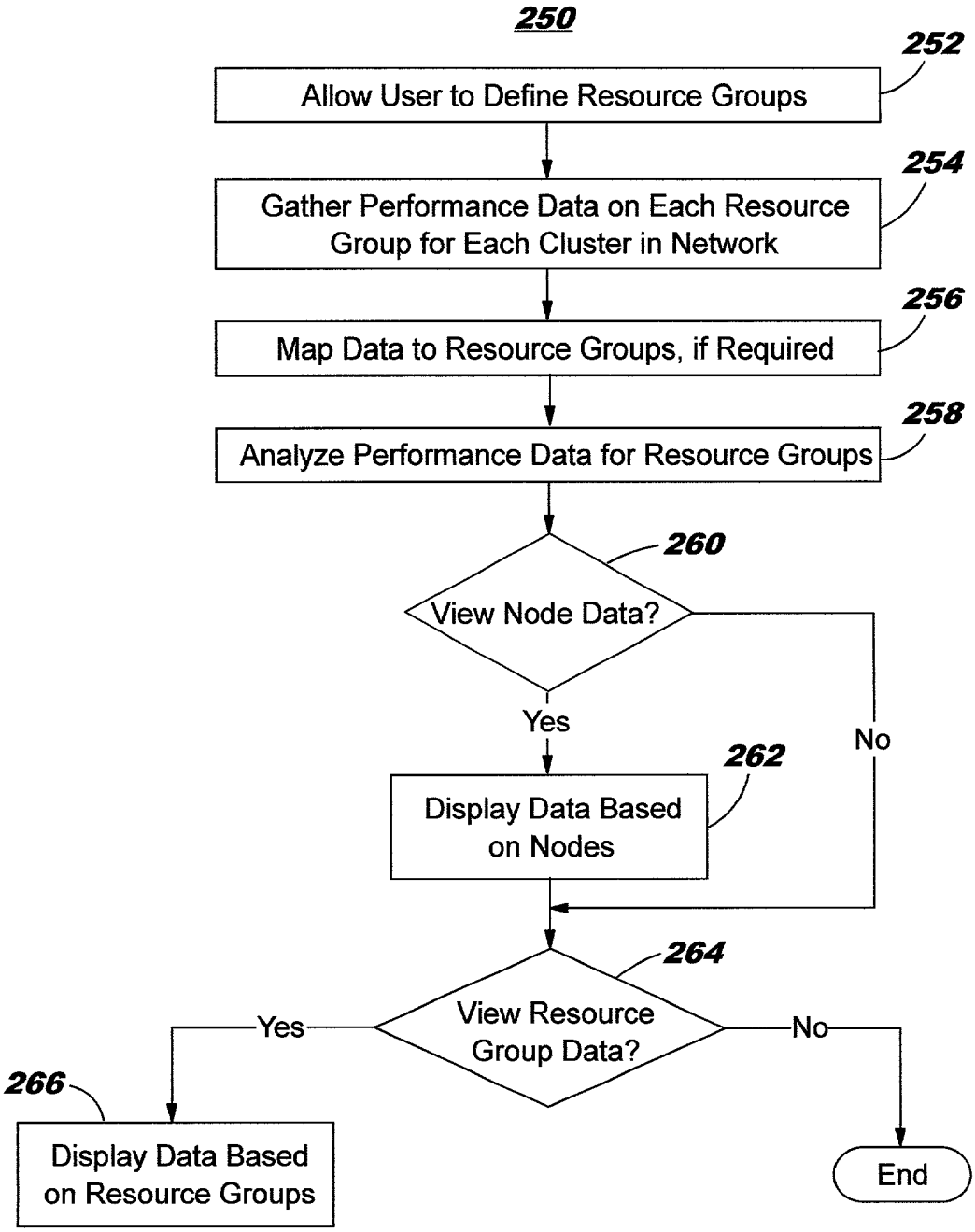

100
102
GUI
154
Console
104
System Agent
152
Server
120
120
110
Agent
150
112
RG 1
130
RG 2
132
113
Agent
150
114
RG 3
134
130
132
Agent
150
RG 4
136
RG 5
138
RG 6
140
133
Agent
150
134
RG 7
142
133
Agent
150
136
RG 8
144

FIG. 4


250
252
Allow User to Define Resource Groups
254
Gather Performance Data on Each Resource Group for Each Cluster in Network
256
Map Data to Resource Groups, if Required
258
Analyze Performance Data for Resource Groups
260
View Node Data?
Yes
No
262
Display Data Based on Nodes
264
View Resource Group Data?
Yes
No
266
Display Data Based on Resource Groups
End

300

FIG. 5A

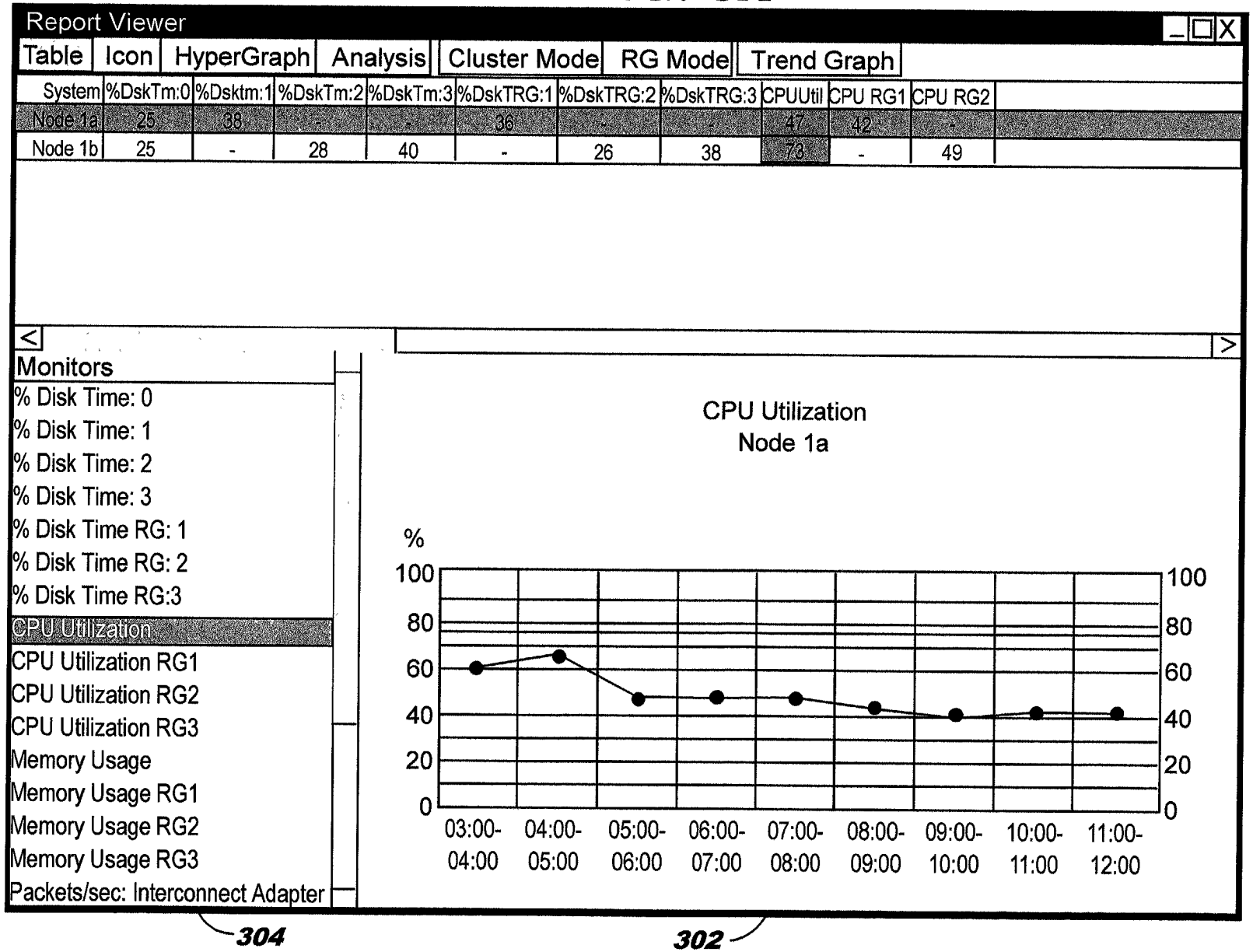
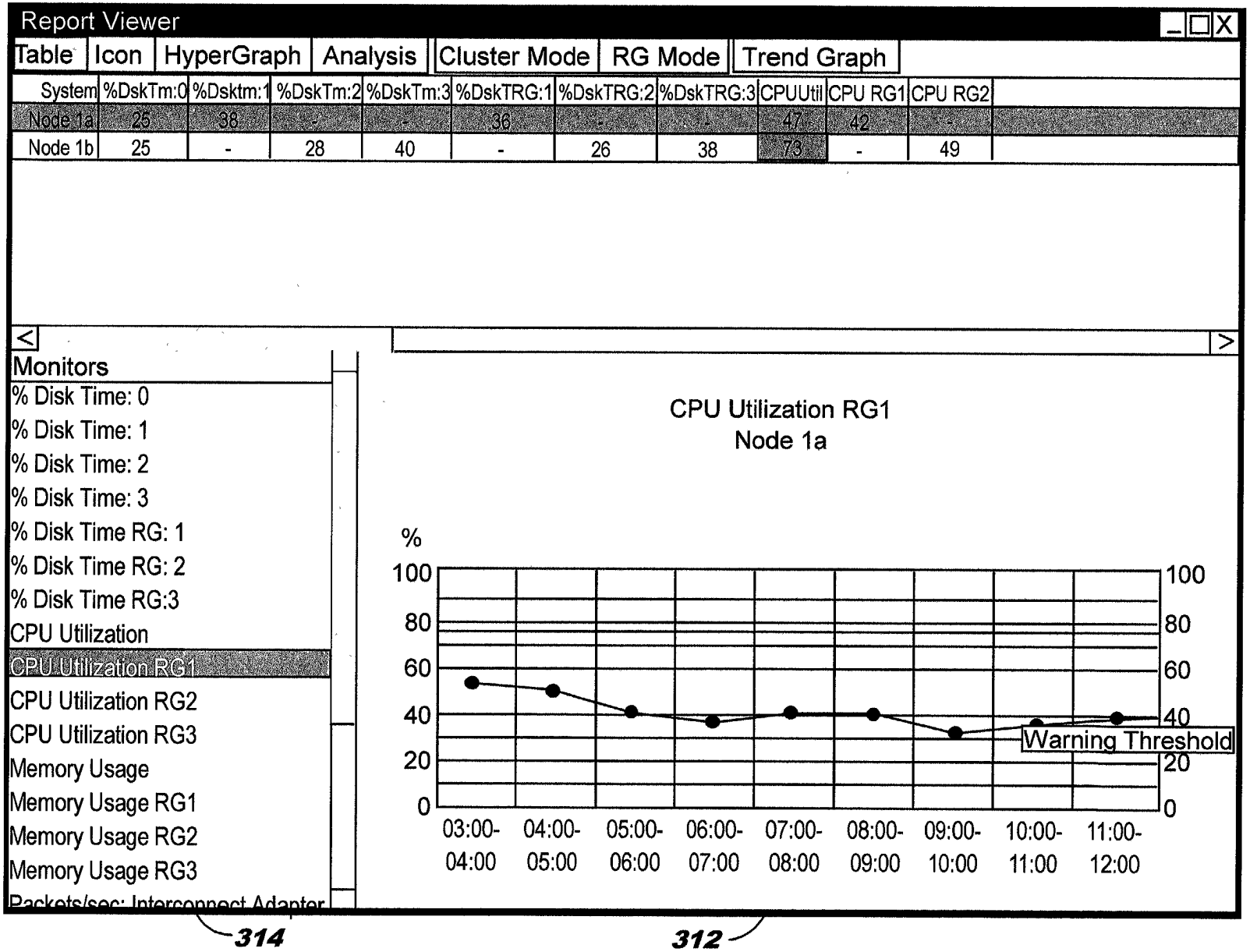
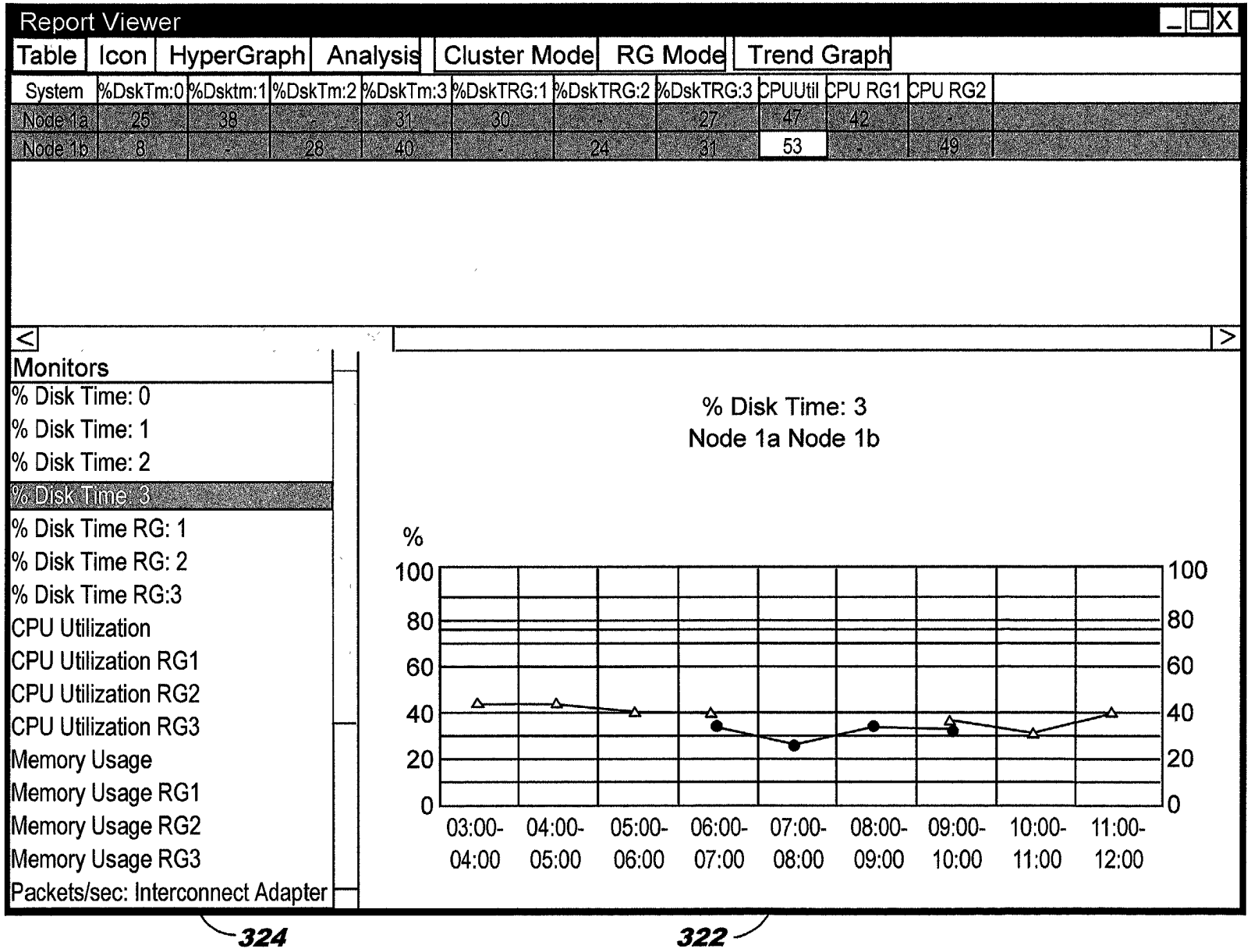

Report Viewer
Table
Icon
HyperGraph
Analysis
Cluster Mode
RG Mode
Trend Graph
System %DskTm:0 %Dsktm:1 %DskTm:2 %DskTm:3 %DskTRG:1 %DskTRG:2 %DskTRG:3 CPUUtil CPU RG1 CPU RG2
Node 1a 25 38 - - 36 - - 47 42 -
Node 1b 25 - 28 40 - 26 38 73 - 49
Monitors
% Disk Time: 0
% Disk Time: 1
% Disk Time: 2
% Disk Time: 3
% Disk Time RG: 1
% Disk Time RG: 2
% Disk Time RG:3
CPU Utilization
CPU Utilization RG1
CPU Utilization RG2
CPU Utilization RG3
Memory Usage
Memory Usage RG1
Memory Usage RG2
Memory Usage RG3
Packets/sec: Interconnect Adapter
CPU Utilization
Node 1a
%
100
80
60
40
20
0
03:00-04:00
04:00-05:00
05:00-06:00
06:00-07:00
07:00-08:00
08:00-09:00
09:00-10:00
10:00-11:00
11:00-12:00
304
302

FIG. 5B


310
Report Viewer
Table
Icon
HyperGraph
Analysis
Cluster Mode
RG Mode
Trend Graph
System %DskTm:0 %Dsktm:1 %DskTm:2 %DskTm:3 %DskTRG:1 %DskTRG:2 %DskTRG:3 CPUUtil CPU RG1 CPU RG2
Node 1a 25 38 - - 36 - - 47 42 -
Node 1b 25 - 28 40 - 26 38 73 - 49
Monitors
% Disk Time: 0
% Disk Time: 1
% Disk Time: 2
% Disk Time: 3
% Disk Time RG: 1
% Disk Time RG: 2
% Disk Time RG:3
CPU Utilization
CPU Utilization RG1
CPU Utilization RG2
CPU Utilization RG3
Memory Usage
Memory Usage RG1
Memory Usage RG2
Memory Usage RG3
Packets/sec: Interconnect Adapter
CPU Utilization RG1
Node 1a
%
100
80
60
40
20
0
Warning Threshold
03:00-04:00
04:00-05:00
05:00-06:00
06:00-07:00
07:00-08:00
08:00-09:00
09:00-10:00
10:00-11:00
11:00-12:00
314
312

320

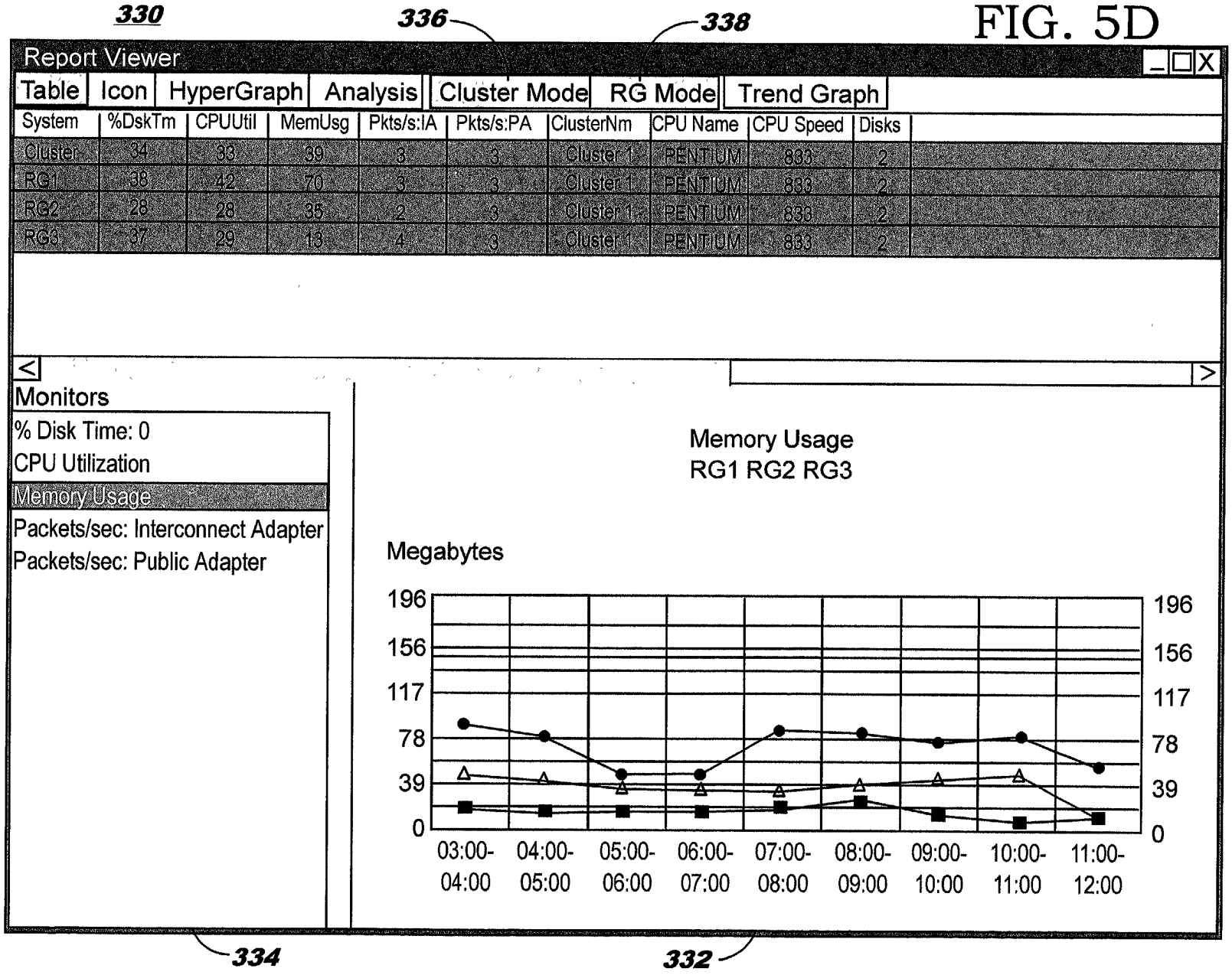
FIG. 5C



324

322

FIG. 5D


330
336
338
Report Viewer
Table
Icon
HyperGraph
Analysis
Cluster Mode
RG Mode
Trend Graph
System | %DskTm | CPUUtil | MemUsg | Pkts/s:IA | Pkts/s:PA | ClusterNm | CPU Name | CPU Speed | Disks
Cluster | 34 | 33 | 39 | 3 | 3 | Cluster 1 | PENTIUM | 833 | 2
RG1 | 38 | 42 | 70 | 3 | 3 | Cluster 1 | PENTIUM | 833 | 2
RG2 | 28 | 28 | 35 | 2 | 3 | Cluster 1 | PENTIUM | 833 | 2
RG3 | 37 | 29 | 13 | 4 | 3 | Cluster 1 | PENTIUM | 833 | 2
Monitors
% Disk Time: 0
CPU Utilization
Memory Usage
Packets/sec: Interconnect Adapter
Packets/sec: Public Adapter
Memory Usage
RG1 RG2 RG3
Megabytes
196
156
117
78
39
0
03:00-04:00
04:00-05:00
05:00-06:00
06:00-07:00
07:00-08:00
08:00-09:00
09:00-10:00
10:00-11:00
11:00-12:00
334
332